

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07085273 A**(43) Date of publication of application: **31 . 03 . 95**

(51) Int. Cl.

G06T 5/00
G03F 5/00
G09G 5/00
H04N 1/405
H04N 1/403

(21) Application number: **06234444**(22) Date of filing: **01 . 09 . 94**(30) Priority: **03 . 09 . 93 US 93 116298**(71) Applicant: **AGFA GEVAERT NV**(72) Inventor: **DESCHUYTERE FRANK
DELABASTITA PAUL**(54) **FREQUENCY MODULATION HALFTONE IMAGE
AND PREPARATION METHOD THEREFOR**

COPYRIGHT: (C)1995,JPO

(57) Abstract:

PURPOSE: To provide a halftone screen for which object moire is suppressed to the minimum by obtaining halftone dots by locally randomly processing a decision theoretical frequency modulation screen.

CONSTITUTION: A memory 310 stores original contone image data inputted from a raster image processor 304. In the memory 320, a halftone pixel value 322 as an output value to a recorder 326 is stored. A screen function generator module 340 is provided with a B ayer matrix 342 and a random processing block 344. By the original B ayer matrix 342 and a random processing in the block 344, a random change screen function value 346 is prepared. A comparator 360 compares the prepared screen function value T346 with the corresponding pixel value P312 of the memory 310. Then, depending on whether a P value is larger or smaller than a T value, halftone values H362 to be '1' (block) or '0' (white) respectively are prepared.

